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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 3

Complete if Known	
Application Number	10/700,297
Filing Date	October 31, 2003
First Named Inventor	Hutchens, T. William
Art Unit	1743
Examiner Name	To Be Assigned
Attorney Docket Number	016866-001514US

U.S. PATENT DOCUMENTS+

Examiner Initials*	Cite No.[1]	Document Number Number Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1.	3,896,661	07-29-1975	Parkhurst et al.	
	2.	4,022,876	05-10-1977	Anbar	
	3.	4,295,046	10-13-1981	Gruter et al.	
	4.	4,296,332	10-20-1981	Hill	
	5.	4,454,233	06-12-1984	Wang	
	6.	4,468,468	08-28-1984	Benninghoven et al.	
	7.	4,686,366	08-11-1987	Stuke	
	8.	4,694,167	09-15-1987	Payne et al.	
	9.	4,705,616	11-10-1987	Andresen et al.	
	10.	4,902,627	02-20-1990	Kidwell	
	11.	4,988,879	01-29-1991	Zare et al.	
	12.	5,003,059	03-26-1991	Brennan	
	13.	5,209,919	05-11-1993	Turteltaub et al.	
	14.	5,045,694	09-03-1991	Beavis et al.	
	15.	5,073,713	12-17-1991	Smith et al.	
	16.	5,078,135	01-07-1992	Caprioli et al.	
	17.	5,118,937	06-02-1992	Hillenkamp et al.	
	18.	5,124,267	06-23-1992	Humpel et al.	
	19.	5,171,989	12-15-1992	Williams et al.	
	20.	5,547,835	08-20-1996	Koster	
	21.	5,622,824 A	04-22-1997	Koster	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]	Number[4]	Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
	22.	GB	2,235,528		03-06-1991	Finnigan Mat GmbH		☐
	23.	GB	2,235,529		03-06-1991	Finnigan Mat GmbH		☐
	24.	GB	2,236,184		03-27-1991	Finnigan Mat GmbH		☐
	25.	GB	2,236,185	B	03-23-1994	Finnigan Mat GmbH		☐
	26.	EP	0 084 086		07-27-1983	Leybold Heraeus GmbH		☐
	27.	EP	0 333 912		09-27-1989	Bruker-Franzen Analyt.		☐
	28.	WO	91/02951		03-07-1991	Finnigin Mat Ltd.		☐
	29.	WO	92/13629		08-20-1992	Wayne State University		☐
	30.	WO	96/37777		11-28-1996	Nelson et al.		☐
	31.	WO	96/40888		12-19-1996	Arizona Board Regents		☐
								☐

Examiner Signature	Alexander	Date Considered	2/15/05

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 3

Complete If Known	
Application Number	10/700,297
Filing Date	October 31, 2003
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NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
	32.	AMERICAN BIOTECHNOLOGY LABORATORY, February 1994 cover, cover-page 2 (1994)	
	33.	BEAVIS, R. et al., "Epitaxial protein inclusion in sinapic acid crystals" J. Phys. D: Appl. Phys.26:442-447 (1993)	
	34.	DWYER, J. et al., "A novel sample preparation device for MALDI-MS" Intn'l Lab. 13A-13F (1997)	
	35.	HILLENKAMP, F., "Laser desorption mass spectrometry: Mechanisms techniques and applications" Bordeaux Mass Spect. Conference Report 11A:354-362 (1988)	
	36.	HUTCHENS, T. et al., "Differences in the confrontational state of a zinc-finger DNA-binding protein domain occupied by zinc and copper revealed by electrospray ionization mass spectrometry" Rapid Comm. in Mass Spect. 6:469-473 (1992)	
	37.	HUTCHENS, T. et al., "New desorption strategies for the mass spectrometric analysis of macromolecules" Rapid Comm. in Mass Spect. 7:576-580 (1993)	
	38.	KARAS, M. et al., "Laser desorption ionization of proteins with molecular masses exceeding 10,000 daltons" Anal. Chem. 60:2299-2301 (1988)	
	39.	KARAS, M. et al., "Ultraviolet laser desorption of proteins up to 120,000 daltons" Bordeaux Mass Spect. Conference Report 11A:416-417 (1988)	
	40.	KARAS, M. et al., "UV laser desorption/ionization mass spectrometry of femtomol amounts of large proteins" Biomed. Environ. Mass Spectr. 18:841-843 (1989)	
	41.	MOCK, K. et al., "Sample Immobilization protocols for matrix-assisted laser desorption mass spectrometry" Rapid Comm. in Mass Spec. 6:233-238 (1994)	
	42.	NELSON et al., "Mass spec. analysis of a trans-metal-binding peptide using MALDTOFMS: A demonstration of probe tip chemistry" Rapid Comm. Mass Spec. 6:4-8 (1992)	
	43.	NELSON et al., "Mass spectrometric immunoassay" Anal. Chem. 67:1153-58 (1995)	
	44.	RIVERA, A., "A summary statement: Probes for affinity mass spectrometry of phophoproteins" April 16, 1994	
	45.	SPEIR, J. et al., "Substrater-assisted laser desorption of neutral peptide molecules" Anal. Chem. 64:1041-1045 (1992)	
	46.	STRUPAT, K. et al., "2,5-Dihydroxybenzoic acid: A new matrix for laser desorption-ionization mass spectrometry" Int'l J. Mass Spectr. and Ion Proc. 111:89-102 (1991)	
	47.	XIANG, F. et al., "A method to increase contaminant tolerance in protein matrix-assisted laser desorption/ionization by the fabrication of thin protein-doped polycrystalline films" Rapid Comm. in Mass Spec. 8:199-204 (1994)	

Examiner Signature		Date Considered	2/15/05

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	48.	YIP, T. et al., Protein Expression and Purification 2:355-362 (1991)	

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